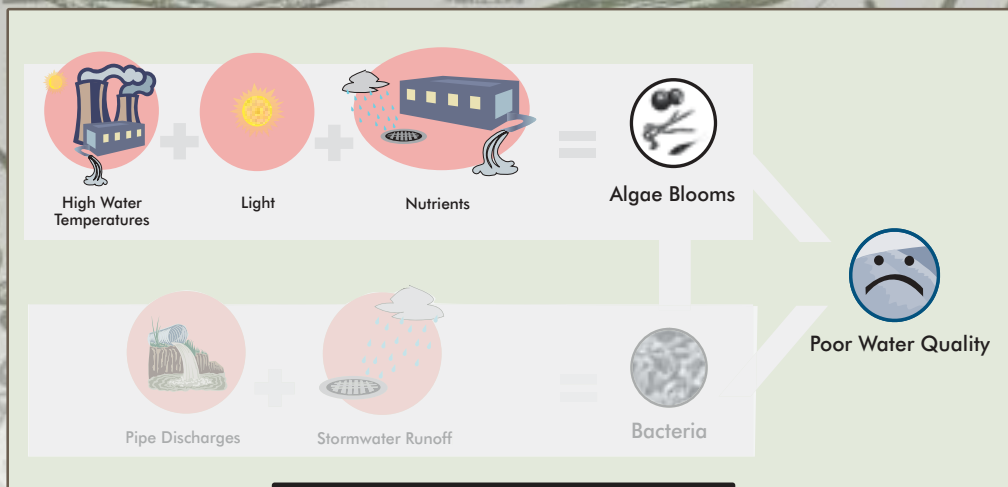


# Science Solving Problems on the Charles



## Algae Blooms

How is the problem being assessed

Charting algae behavior in the river

How much algae can the river handle?

Diet designed to lose algae through TMDL

TMDL Plan Implemented

Impacts boating, swimming & fishing

### Monitoring, Sampling, and Assessment

#### CWRA, EPA, MWRA, USGS Studies:

Nutrient Loads  
Computer Modeling  
Salinity  
Sampling  
Sediment  
Stormwater Management



Biology, Chemistry, and Physics

### TMDL (total maximum daily load) Plan

- Remove enough nutrients and heat to reduce algae content of river
- Divide nutrient and heat "cuts" among sources
- Public input

### TMDL Plan Implementation

- Wastewater treatment controls
- Aggressive stormwater control
- Power plant thermal controls